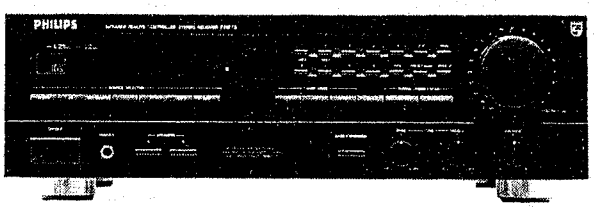
Receiver 70FR675/00R/05R

Service
Service
Service



Service Manual

(GB)

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

Documentation Technique Service Dokumentation Documentazione di Servizio Huolte-Ohje Manual de Servicio Manual de Serviço

PHILIPS

(GB) Subject to modification
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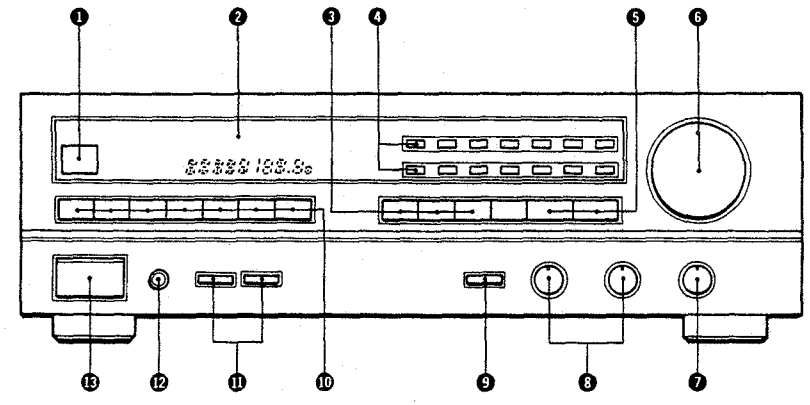
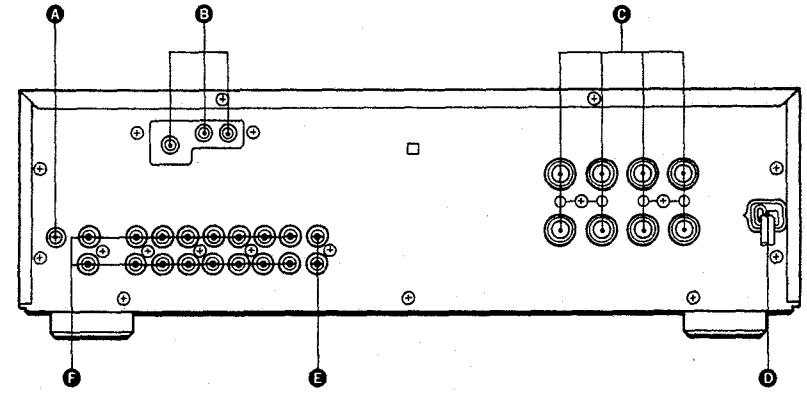
CS 35 849

SPECIFICATION

		Nominal value	Typical value
General			
Mains voltage		: 220V	: 220V
Mains frequency		: 50Hz	: 50Hz
Power consumption		: 280W	: 250W
Dimensions (WxHxD)		: 420 x 110 x 380 mm	: 420 x 110 x 380 mm
Weight		: 9.5 kg	: 9.5 kg
Tuner: FM section (at 75Ω)			
Tuning range		: 87.5 MHz to 108.0 MHz	: 87.5 MHz to 108.0 MHz
Aerial inputs		: 75Ω coaxial	: 75Ω coaxial
Sensitivity	Mono	: 17.3 dBf (2.0 μV) 3% Distortion (75 kHz dev.)	: 13.5 dBf (1.3 μV) 3% Distortion (75 kHz dev.)
Selectivity		: 50 dB at ±300 kHz bandwidth	: 60 dB at ±300 kHz bandwidth
Frequency response	30 Hz – 15 kHz	: +1.0, –4.0 dB	: +0.5, –2.0 dB
Suppression	IF-AM	: 70 dB –45 dB	: 80 dB –55 dB
	pilot tone	: 40 dB	: 50 dB
	image frequency	: 65 dB	: 75 dB
Channel separation		: 30 dB 1 kHz	: 40 dB 1 kHz
Distortion T.H.D	mono	: 0.4%	: 0.2%
	stereo	: 1.0%	: 0.5%
Signal/noise ratio	mono	: 71 dB	: 76 dB
	stereo	: 63 dB	: 68 dB
Autom-stop threshold (Muting)		: 23.3 – 32.1 dBf (4 – 11 μV)	: 27.2 dBf (6.3 μV)
Output		: 660 – 1300 mV/2.1 kΩ 350 – 800 mV/3.3 kΩ	: 940 mV/2.1 kΩ : 500 mV/3.3 kΩ
Tuner: AM section			
Wave ranges		: 531 kHz to 1602 kHz	: 531 kHz to 1602 kHz
Sensitivity	(Loop antenna)	: 800 μV/m 10% Distortion	: 500 μV/m 10% Distortion
Selectivity	(Loop antenna)	: 20 dB at ±9 kHz bandwidth	: 30 dB at ±9 kHz bandwidth
Suppression	IF (Loop antenna)	: 50 dB	: 60 dB
	image frequency (Loop antenna)	: 35 dB	: 40 dB
Output	(Loop antenna)	: 200 – 400 mV	: 280 mV
Tuner: Digital section			
Tuning steps	FM/AM	: 50 kHz/9 kHz	: 50 kHz/9 kHz
Presets	FM+AM	: 30 random sequential	: 30 random sequential
Audio			
Output power		: 60W	: 65W
Distortion		: ⩽ 0.09% at 20 Hz – 20 kHz (IHF)	: ⩽ 0.05% at 20 Hz – 20 kHz (IHF)
T.H.D.		: ⩽ 0.09% at 60/7000 Hz 4:1 (IHF)	: ⩽ 0.01% at 60/7000 Hz 4:1 (IHF)
Intermodulation			
Frequency characteristic			
Phono input	tone control	: from 20 Hz – 20 kHz ±2.0 dB (RIAA)	: from 20 Hz – 20 kHz ±0.5 dB (RIAA)
Other inputs	neutral	: from 20 Hz – 20 kHz ±2 dB	: from 10 Hz – 30 kHz ±2 dB
		: at 100 Hz ⩾ +8 dB to ⩽ –8 dB	: at 100 Hz +10 dB to –10 dB
		: at 10 kHz ⩾ +8 dB to ⩽ –8 dB	: at 10 kHz +10 dB to –10 dB
Signal/noise ratio			
weighted (A-curve)			
Phono input		: ⩾ 70 dB	: ⩾ 75 dB
Other inputs		: ⩾ 78 dB	: ⩾ 82 dB
Channel separation		: at 1000 Hz ⩾ 40 dB	: at 1000 Hz ⩾ 45 dB
		: at 10 kHz ⩾ 30 dB	: at 10 kHz ⩾ 35 dB
Input sensitivity/Input impedance			
Audio			
Phono		: 4.4 – 2.8 mV/47 kΩ	: 3.5 mV/47 kΩ
CD/TV/CDV/Aux		: 175 – 280 mV/36 kΩ	: 220 mV/36 kΩ
Tape/VCR		: 175 – 280 mV/36 kΩ	: 220 mV/36 kΩ
Output level/Output impedance			
Tape (Audio)		: ⩾ 250 mV/400Ω (Phone 5.0 mV 1 kHz input)	: 300 mV/400Ω (Phono 5.0 mV 1 kHz input)





CONNECTIONS AND CONTROLS

1	IR Sensor	QU04	A	Ground terminal	J031
2	Display	VU01	B	Antenna terminal	J101
3	Tuner mode	SU08~SU10	C	LS output	JW01
4	Function switch	SU14~SU27	D	Mains cord	W001
5	Tuning/Reset scan switch	SU12, SU13	E	Remote in/out	JV04
6	Volume control	RG01	F	Audio input/output	J401
7	Balance control	RV01			JV01~JV03
8	Tone control	RE19, RE20			
9	Bass EQ	SE01			
10	Source select switch	SU01~SU06			
11	LS switch	ST01			
12	Headphone socket	JT01			
13	Mains switch	S901			

ADJUSTMENTS

- During FM adjustment, use the band-pass filter (B.P.F, 200 Hz to 15 kHz) specified by IHF.
  Particularly, be sure to use the filter with stereo distortion and separation adjustment. (The attenuation at 19 kHz should be no less than 30 dB.)
- Inner adjustment of the FM front end pack (A101) of this unit is difficult. (RF, OSC)
- Inductance of the AM OSC coil (LA02) is preset. Therefore, please do not turn the core of this coil.

• T.R POINT ME (tracking point memory) mode.

From power OFF (backup mode), when the power switch is pressed ON while pressing the up and MEMO key simultaneously, the T.R POINT ME mode is called.
Frequencies to be memorized are as follows.

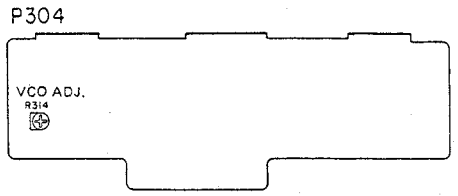
	P1	P2	P3	P4	P5	P6	P7	P8
FM	90.0 MHz	98.0 MHz	106.0 MHz	87.5 MHz				
AM					603 kHz	999 kHz	1404 kHz	531 kHz

	P9	P10	P11	P12-P30	
FM					
AM	531 kHz	531 kHz	531 kHz	531 kHz	

• Adjustment of FM MPX VCO

The part to be adjusted: R314

1) Set the frequency and output of the signal generator at 98 MHz and 500 μV (54 dB)/75 ohms respectively and synchronize the set to them.
2) After confirming that the "TUNED" indicator in FL display is not turned off when you set FM MODE SWITCH in AUTO STEREO position (AUTO is alight), turn off the modulation of the signal generator.
3) After connecting a frequency counter to the test point, UP15, adjust R314 so that the frequency counter shows 228 (±0.05) kHz.



FM IF

SK... WAVE RANGE SWITCH	SIGNAL	TO	DISPLAY TUNE IN	DETUNE	ADJUST	OSCILLOSCOPE	INDICATOR
FM SU08 Mono SU10	98 MHz Mod. 1 kHz Δf 75 kHz (Mono) Low level output	J101			A101-L8	JV02 (Tape output) Symmetrical	

FM Distortion

FM SU08	98 MHz Mod. 1 kHz Δf 40 kHz (Mono) Output 65.2 dBf (500 μV)	J101			L201		R206 ±0 mV
					L202 (L201)		JV02 (Tape output) Distortion Min.
	98 MHz Mod. 1 kHz Δf L+R 40 kHz Pilot 6 kHz Output 65.2 dBf (500 μV)				A101-L8		

Stereo Separation

FM SU08	98 MHz Mod. 1 kHz Δf L+R 40 kHz Pilot 6 kHz Output 65.2 dBf (500 μV)	J101			R301		JV02 (Tape output) Separation Max.

Muting Level

FM SU08 FM mode switch SU10 (Auto indicator lights on)	98 MHz Mod. 1 kHz Δf 75 kHz Output 27.2 dBf (6.3 μV)	J101			R211		VU01 [1] TUNED LIGHTS ON

AM IF

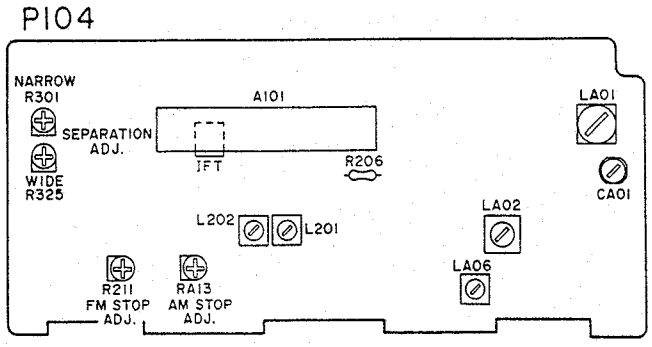
AM SU09	999 kHz Mod. 400 Hz 30% Low level output	Loop ant.			LA06		JV02 (Tape output) Output Max.

AM RF

AM SU09	603 kHz 1404 kHz	Loop ant.			LA01 CA01		JV02 (Tape output) Output Max.

[1] By turning R211, goes off the tuned of VU01, and then adjust it by turning a little R210 so that the tuned lights on again.

Adjustment Positions and Test Points



Idling Current

SK... SWITCH	SIGNAL	TO	VOLUME	ADJUST	OSCILLOSCOPE	METER INDICATOR
			Min.	Lch R719		Lch R737 [2]
				Rch R720		Rch R738 [2]

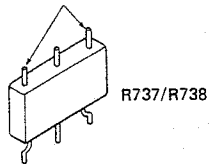
(1) Before switching the power ON, set the Master Volume control to the minimum position and the Balance and Tone controls to the center positions. Then, rotate the semi-fixed resistors R719 (L CH) and R720 (R CH) on the PC board PV04 fully clockwise.
(2) Connect a digital voltmeter, set for the DC voltage input to the pertinent test points (the marked ones of R737-R738) on the PC board PV04. (Positive: Rear side, Negative: Front side)
(3) After the completion of the above setup.
Switch the power ON and adjust the semi-fixed resistors R719 (L CH) and R720 (R CH) on the PC board PV04 according to the reading of the digital voltmeter. The setting values are 6 ~ 7.6 mV (16.7 ~ 20 mA) of the both channels.

Please refer to the table below.

After Power ON

20 sec later	2 mV
1 min later	4 mV
More than 5 min	6 ~ 7.6 mV

Measurement point



Microprocessor and FL operation check program mode

FL segment check

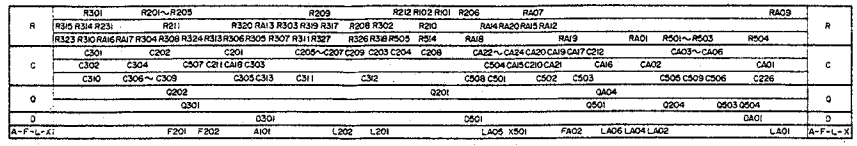
- This program is to check each FL segment for its lighting.
  (1) When the test mode is entered, microprocessor's MUTE OUT becomes "HIGH" to apply muting to the unit itself. No change occurs in any other setting.
  (2) At first, every segment is aligned, for 3 seconds.

Service mode (input selector check)

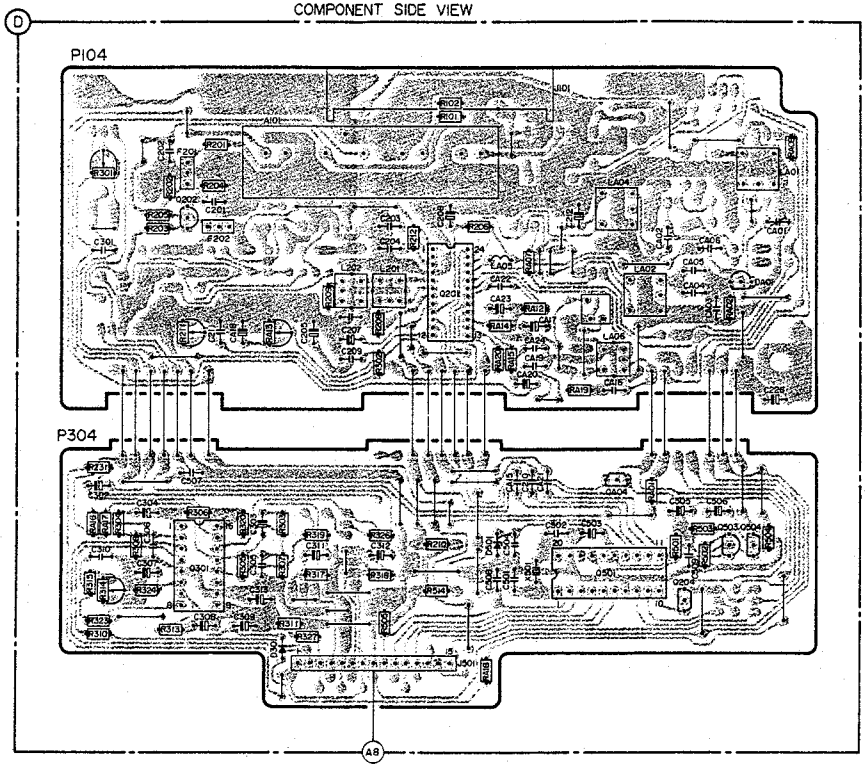
- This program is to check the input selector, etc. of the unit itself for functioning.
  (1) Microprocessor's MUTE OUT is made "LOW".
  (2) In a procedure shown in the following, each object is subject to execution of check for 3 seconds, and operation shifts to the next one. Then, operation starts at step 1.
  (3) At the time of object change, muting is applied at the aforesaid timing.
  (4) When the final step is executed, operation returns to step 1 to repeat.
  (5) When the (TP) key is pressed, operation shifts to the next step. However, in this case, any continuous pressure of this key is not accepted. Operation is stopped by the (REC) key and is resumed by the (TP) key. Either is always accepted.

Step	Function	Notes
1	FM	FM mode: Auto, last frequency (initial)
2	FM	FM mode: Mono, last frequency (initial)
3	PHONO	
4	CD	
5	TAPE	
6	TV	
7	CDV	
8	VCR	

WIRING DIAGRAM



COMPONENT SIDE VIEW

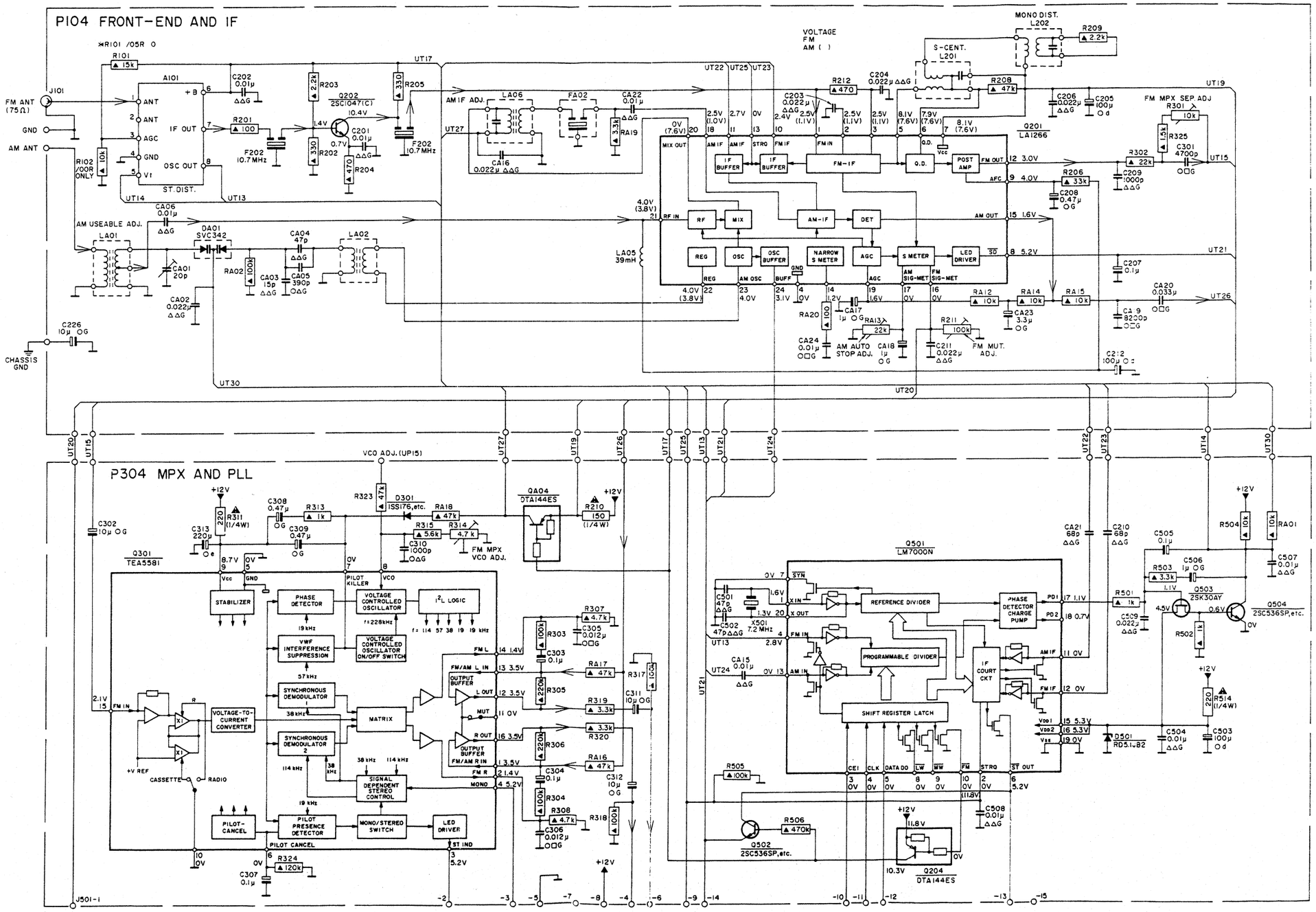


Carbon film 0.125 W or 0.2 W	70°C	5%	Ceramic plate Tuning ⩽ 120 pF NP.0 2% Others −20/+80%
Carbon film 0.25 W or 0.33 W	70°C	5%	Polyester flat foil 10%
Metal film 0.25 W or 0.33 W	70°C	5%	Metalized polyester flat film 10%
Carbon film 0.5 W	70°C	5%	Polyester flat foil small size (Mylar) 10%
Carbon film 0.67 W	70°C	5%	Polysterene film/foil 1%
Carbon film 1 W or 1.15 W	70°C	5%	Tubular ceramic
			Miniature single
Ⓒ Chip component			Subminiature tantalum ± 20%

*a	2.5 V
b	3.15 V or 4 V
c	6.3 V
d	10 V
e	16 V
f	25 V
g	40 V
h	63 V
i	100 V
l	125 V
m	150 V
n	160 V
q	200 V
r	250 V
s	300 V
t	350 V
u	400 V
v	500 V
w	630 V
x	1000 V
A	1.6 V
B	6 V
C	12 V
D	15 V
E	20 V
F	35 V
G	50 V
H	75 V
I	80 V

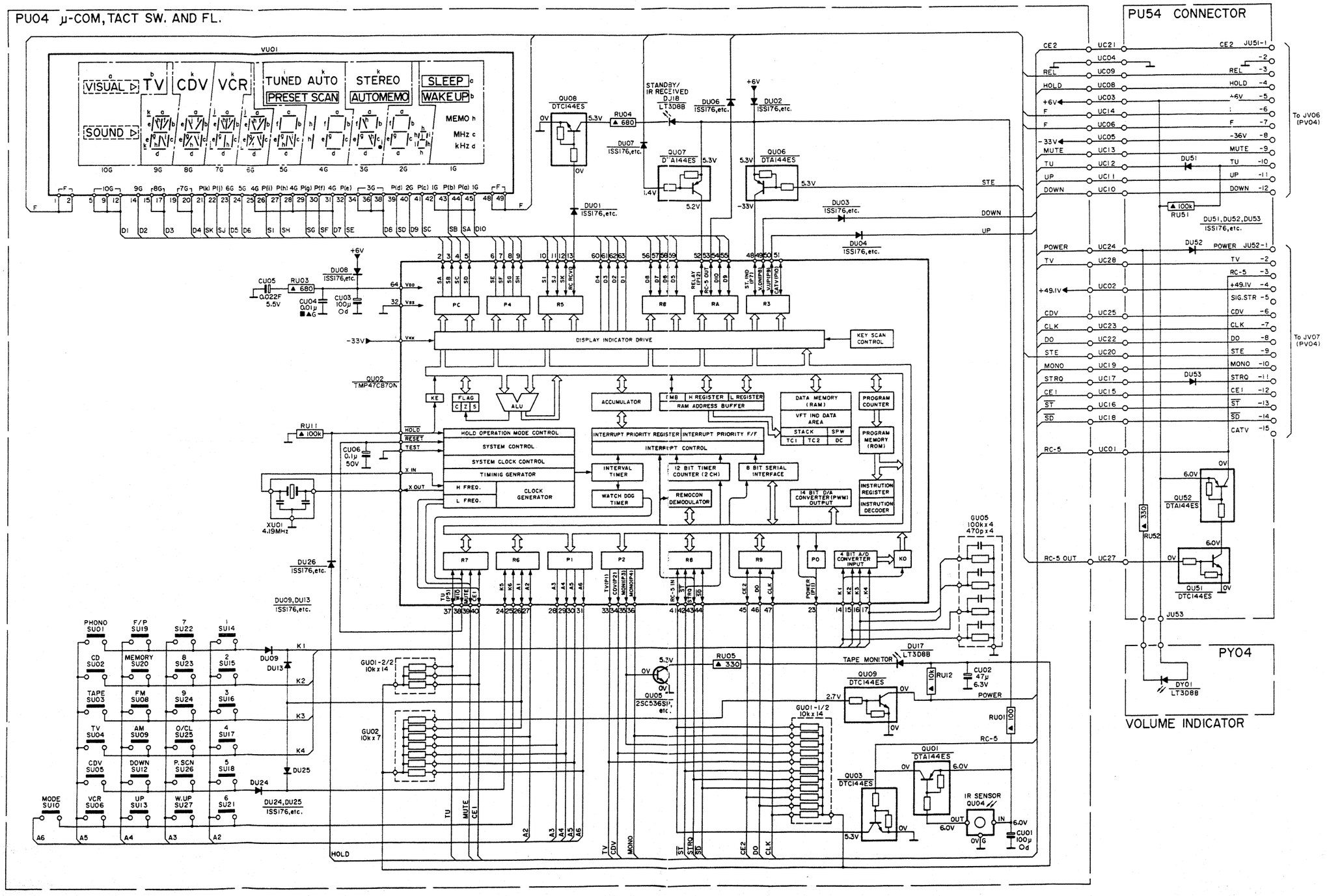
SCHEMATIC DIAGRAM

R	R102 R101 RA02 R201~R205 RA19 RA20 R212 RA13 R211 RA12 R208 RA14 R206 RA15 R209 R302 R325 R301 R311 R324 R313 R323 R315 RA18 R314 R303~R308 R210 RA17 RA16 R317~R320 R505 R506 R501 R503 R502 R514 R504 RA01	R
C	C226 CA01~CA06 C202 C201 CA16 CA22 C203 CA24 CA17 C204 CA18 C211 C23 C205~C209 C212 CA19 CA20 C301 C302 C313 C307 C308 C309 C310 C303~C306 C312 C311 C501 C502 CA15 C508 CA21 C210 C509 C503~C507	C
Q	Q301 Q202 QA04 Q502 Q501 Q204 Q201 Q503 Q504	Q
D	DA01 D301 D501	D
A-F-L-X	LA01 AI01 F202 LA02 F202 LA06 FA02 LA05 X501 L201 L202	A-F-L-X



SCHEMATIC DIAGRAM

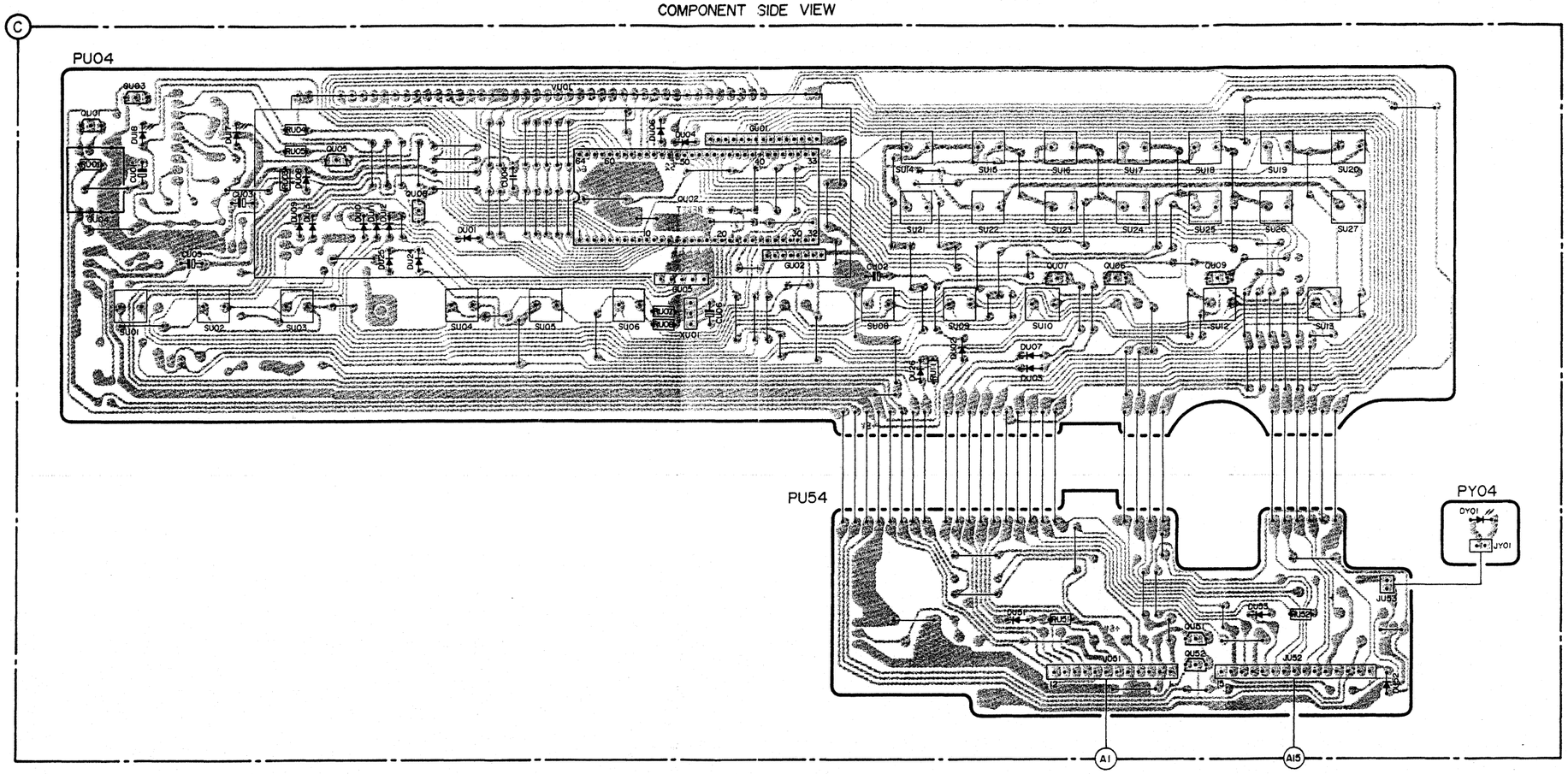
R	RU03 RU11 RU04 RU05 RU12 RU01 RU52 RU51	R
C	CU05 CU04 CU03 CU06 CU02 CU01	C
Q	QU02 QU08 QU05 QU07 QU06 QU03 QU09 QU01 QU04 QU52 QU51	Q
D	DU24 DU09 DU13 DU25 DU26 DU28 DU01 DU07 DU18 DU06 DU02 DU03 DU04 DU17 DU51 DU52 DU53	D
G-S-V-X	SU01~SU06 SU08~SU10 SU12~SU20 SU22~SU27 VU01 XU01 GU01-2/2 GU02 GU01-1/2	G-S-V-X



WIRING DIAGRAM

R-G	RU01	RU03~RU05	RU07 RU08 GU05	GU01 GU02	RU11	RU51	RU52	R-G
C	CU01 CU05 CU03	CU04	CU06	CU02				C
G	QU01 QU04 QU03	QU05 QU08	QU02			QU07 QU06	QU51 QU52 QU09	G
D	DUI8 DUI7	DU09 DU08 DUI3 DUI0 DUI2 DU25 DU01	DU06 DU04		DU26 DU02	DU51 DU07 DU03	DU53 DU52 DY01	D
S-V-X	VU01				SUI4 SUI5 SUI6 SUI7 SUI8 SUI9 SUI20			S-V-X
	SU01 SU02 SU03	SU04 SU05 SU06 XU01			SU08 SU21 SU09 SU22 SU10 SU23	SU24	SU25 SUI2 SU26 SUI3 SU27	

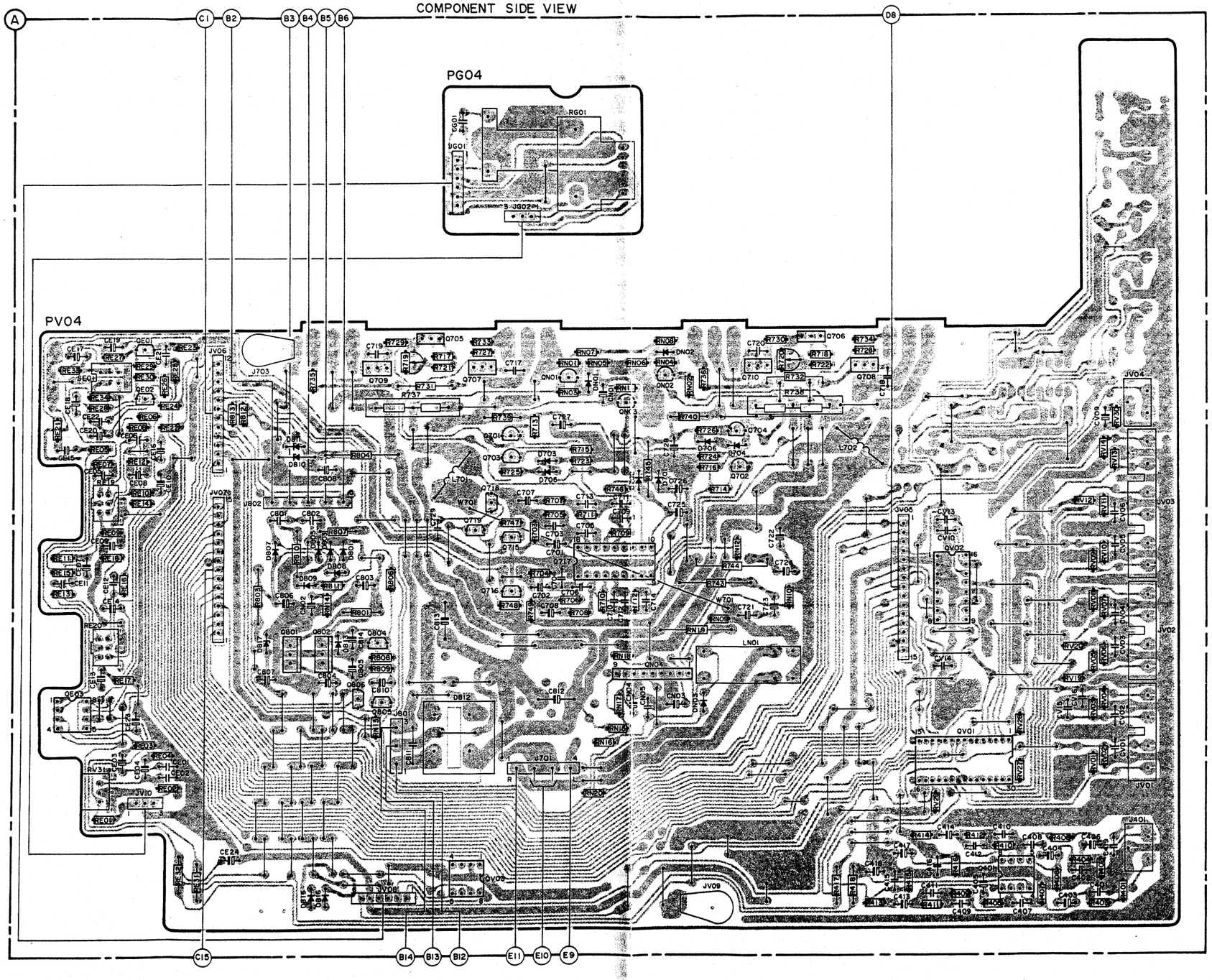
COMPONENT SIDE VIEW



WIRING DIAGRAM

R	RE33 RE34 RE21~RE30 R813 R812 R735 R804 R729 R719 R717 R721 R733 R727 RG01 RN01~RN08 RN11 R740 R736 R730 R720 R718 R722 R734 R728 RV30 RE05~RE14 RE15~RE20 R803 R806~R811 R801 R737 R731 R739 R725 R703~R716 R723 R743~R746 R726 R724 R732 R738 RV27~RV29 RV20 RV19 RV01~RV14 RE01~RE04 RV31 RE32 RE31 RN14 RN13 R747~R749 RN15~RN20 RN09 RN12 RN10 R401~R418	R
C	CE15~CE22 C719 CG01 C717 C727 CN01 C728 C720 C718 CV13 CV10 CV09 CE05~CE14 C801~C808 C729 C701~C714 C721~C726 CV14 CV15 CV16 CV01~CV06 CE23 CE01~CE04 CE24 CN02 C810~C814 CN03~CN05 C401~C419	C
Q	QE01 QE02 Q709 Q705 Q707 Q701 Q703 QN01 QN03 QN02 Q702 Q704 Q710 Q706 Q708 QE03 Q801 Q802 Q804~Q806 QV03 Q715~Q719 QN04 QV02 QV01 Q401	Q
D	D817 D807~D811 D815 D816 D805 D803 D801 D813 D812 DN01 D701~D706 DN02 DN03	D
L-S	SE01 L701 LN01 L702	L-S

COMPONENT SIDE VIEW



SCHEMATIC DIAGRAM

| | | |

SCHEMATIC DIAGRAM

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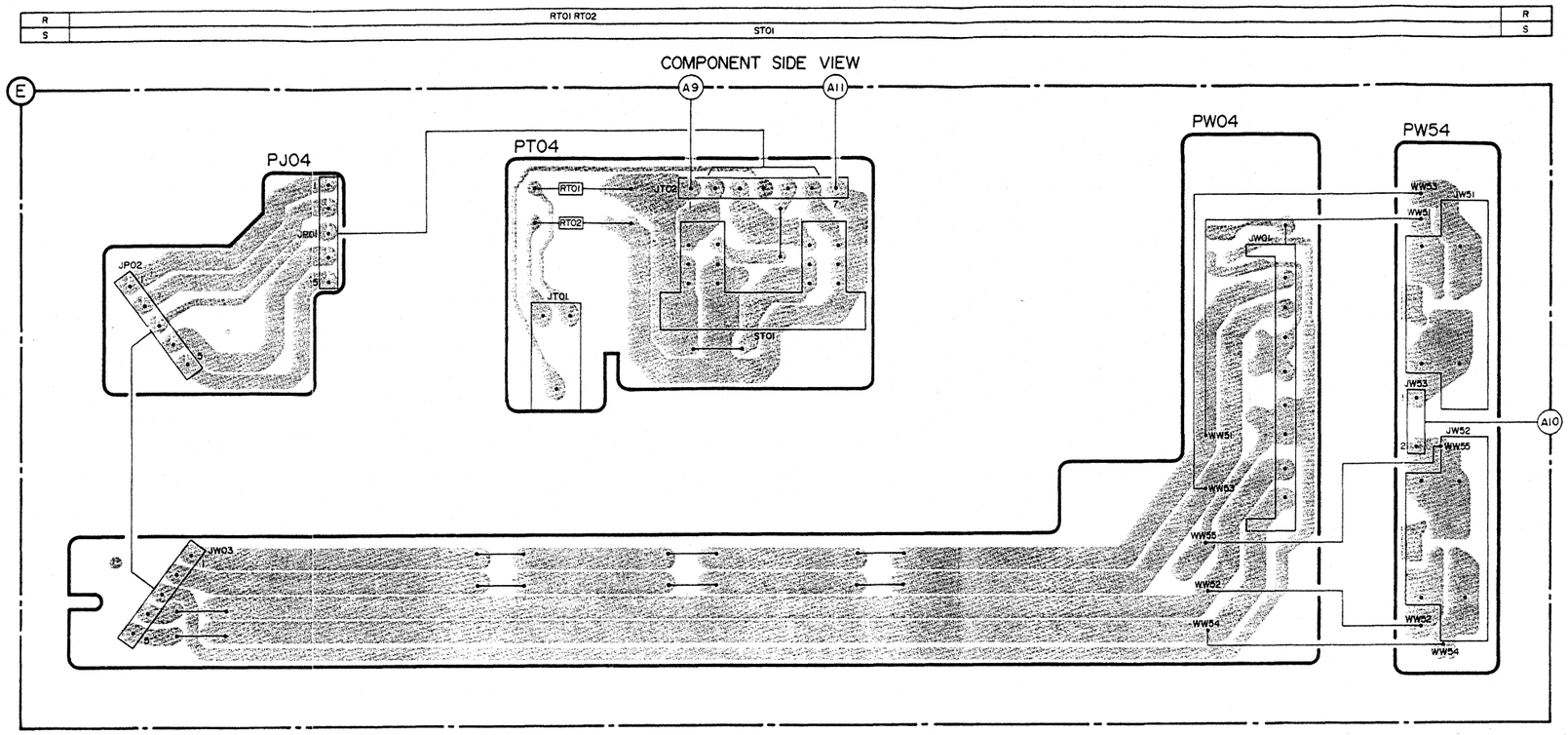
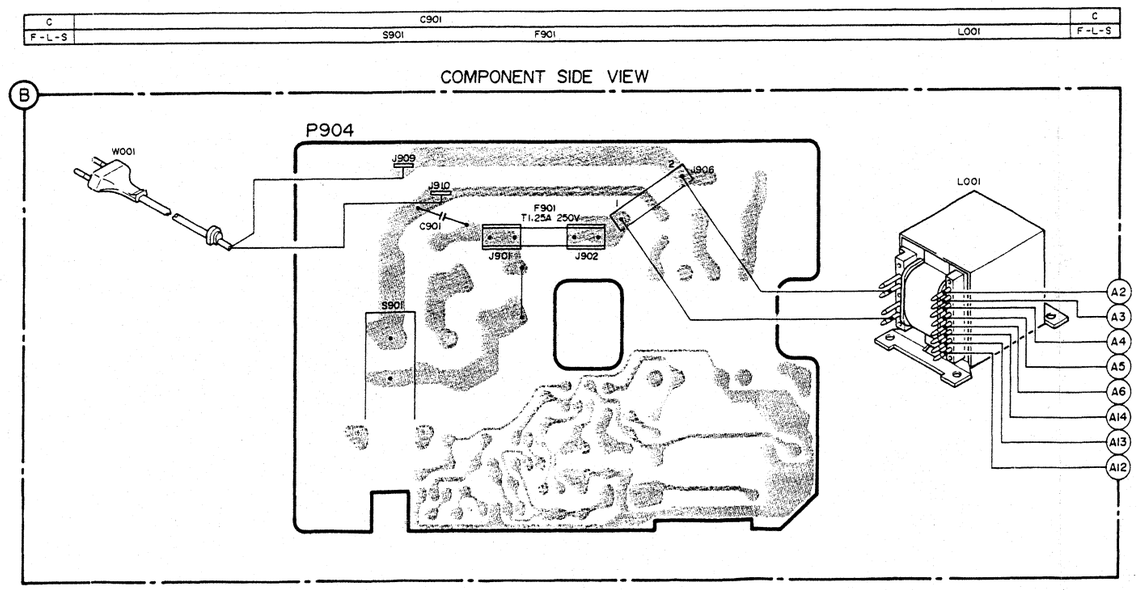
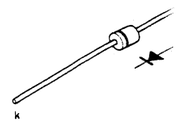
WIRING DIAGRAMS



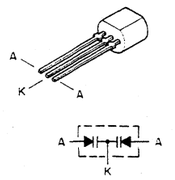


CS 35 860

Semiconductor Lay



S5688G



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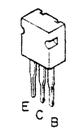

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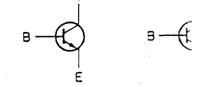
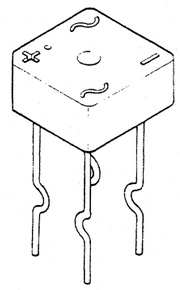


2SD2033 2SB1



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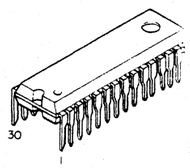
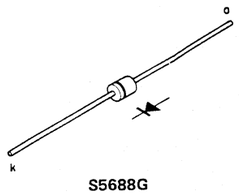


LC7821

Semiconductor Layout



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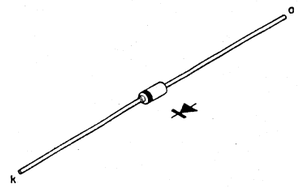
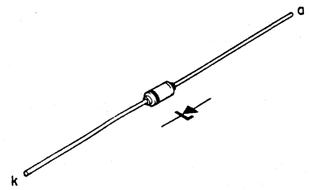
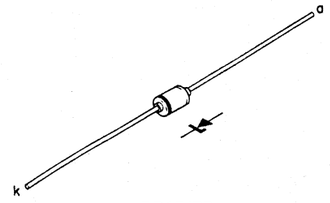


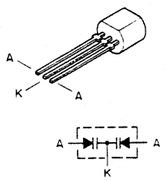
1SS176
HSS81TD



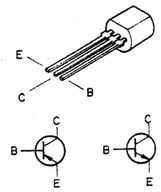
RD5.1JB2 RD12JB2
RD8.2JB2 RD15JB2
RD9.1JB2



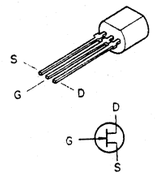
RD15JB3
RD33FB2



SVC342



2SA970 2SC2240
2SC2047(C)



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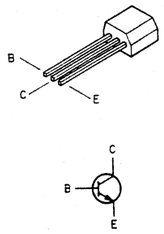

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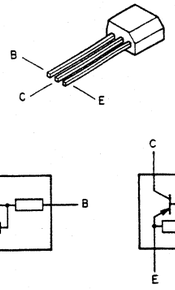
2SD2144S



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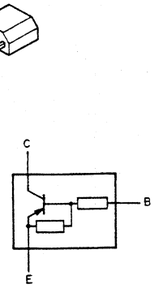
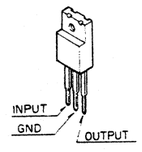
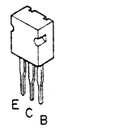
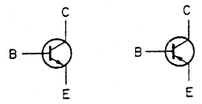


DTA144ES

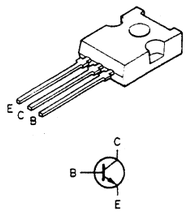


NJM7806FA
NJM7812FA

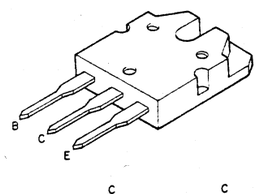




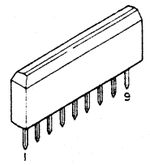
2SD2033 2SB1353



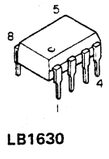
2SC3419



2SC3182 2SA1265



TA7317P



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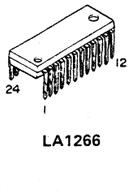
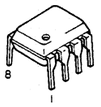


LA1266



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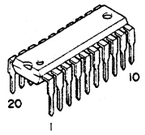
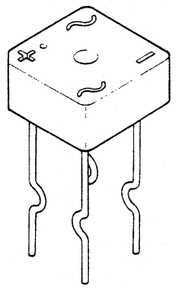
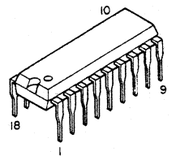
NJM2068D-D



LM7000N



BR82



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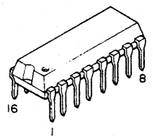
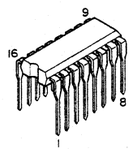
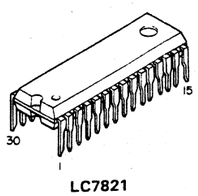


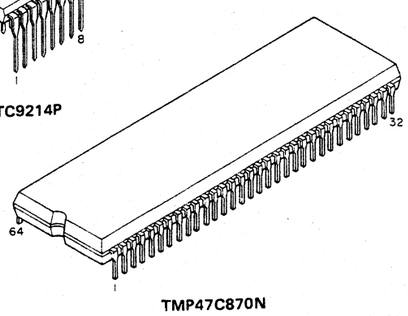
TEA5581



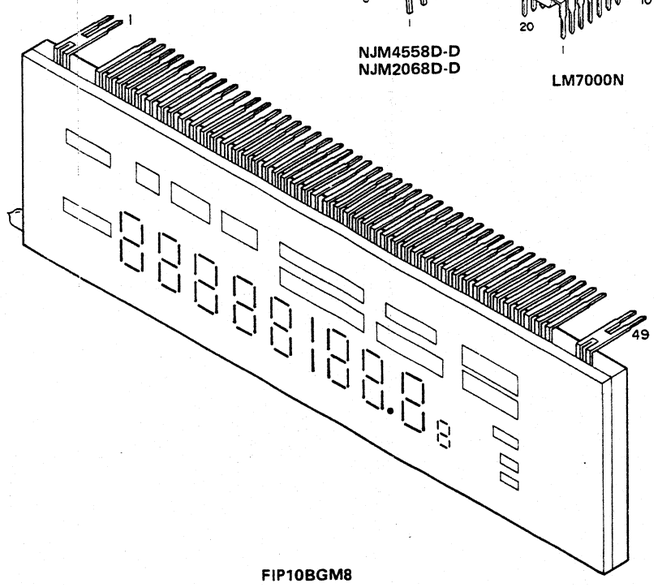
TC9214P



LC7821



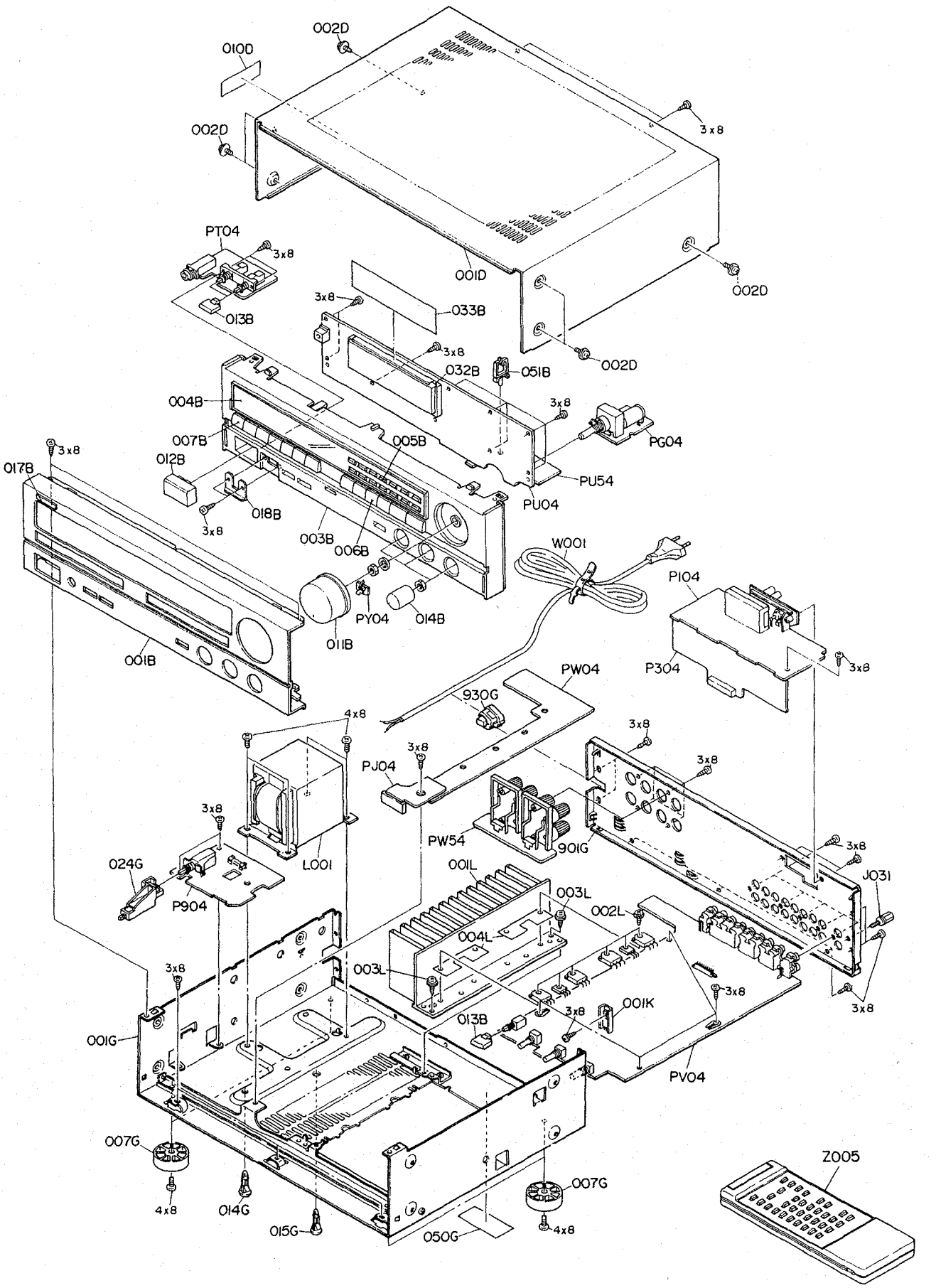
TMP47C870N



FIP10BGM8

001B	4822 426 51472	Front panel
003B	4822 464 70581	Chassis, front
004B	4822 450 61692	Window
005B	4822 410 61142	Button, preset
006B	4822 410 61143	Button, band/tuning
007B	4822 410 61144	Button, function
011B	4822 413 41522	Knob, volume
012B	4822 410 25479	Button, power
013B	4822 410 60144	Button
014B	4822 413 31551	Knob, rotary
017B	4822 454 40107	Badge, PHILIPS
032B	4822 256 91642	Holder, FL
033B	4822 459 10942	Sticker, FL
002D	4822 532 11276	B.T. Screw (w/w)
007G	4822 462 41796	Foot
024G	4822 404 21143	Link, power switch
930G	4822 532 60948	Bushing, AC cord
002L	4822 502 12357	B.T. Screw (w/w)
003L	4822 502 12357	B.T. Screw (w/w)
004L	4822 466 92989	Sheet
001T	4822 736 21054	User manual
J031	4822 290 40297	Terminal, GND
L001	4822 146 21531	Power transformer
Z001	4822 303 50055	EXT. antenna, FM
Z003	4822 157 63083	ANT coil, loop
Z005	4822 218 10388	Unit K, RC675FR

EXPLODED VIEW



QN01, QN02	4822 130 43233	2SC2240 (GR, BL)
Q703, Q704		
QN03	4822 130 42951	2SA970 (GR, BL)
Q701, Q702		
Q705, Q706	4822 130 60117	2SC3419(Y)
Q707, Q708	4822 130 62335	2SD2033(E)
Q709, Q710	4822 130 62334	2SB1353(E)
Q711, Q712	4822 130 61747	2SC3182(R, O)
Q713, Q714	4822 130 61746	2SA1265(R, O)
Q715, Q716	4822 130 61892	2SD2144S(U, V)
QU03, QU08	4822 130 42594	DTC144ES
QU09, QU51		
Q718		
QA04	4822 130 42682	DTA144ES
QU01, QU06		
QU07, QU52		
Q204		
Q719, Q806		
QE01, QE02	4822 130 42298	2SC536SP (2SC2458,
QU05		2SC3311, 2SC1740S)
Q502, Q504		
Q804, Q805		
Q202	4822 130 42082	2SC2047(C)
QU04	4822 130 82139	PAS-C0617 (Photo unit)
Q503	4822 130 42121	2SK30AY

DA01	4822 125 50416	SVC342
DN01, DN02	4822 130 80837	HSS81TD
DN03	4822 130 33305	1SS176 (MA165, 1SS254)
DU01÷DU09		
DU13		
DU24÷DU26		
DU51÷DU53		
D301		
D703÷D706		
D813		
DU17, DU18	4822 130 80326	LT3D8B
DY01		
D501	4822 130 80317	RD5.1JB2 (MTZJ5.1B)
D701	4822 130 80273	RD8.2JB2 (MTZJ8.2C)
D702	4822 130 80322	RD15JB3 (MTZJ16A)
D801, D803	4822 130 80839	S5688G
D805		
D807÷D809		
D815, D816		
D810	4822 130 81287	RD33F-B2
D811	4822 130 80319	RD9.1JB2 (MTZJ9.1C)
D812	4822 130 81093	BR82
D817	4822 130 80091	RD12JB2 (MTZJ12C)

QE03	4822 209 73064	NJM2068DD
QU02	4822 209 62558	TMP47C870N-4668
QN04	4822 209 83312	TA7317P
QV01	4822 209 72748	LC7821
QV02	4822 209 73275	TC9214P
QV03	4822 209 73287	LB1630
Q201	4822 209 71785	LA1266
Q301	4822 209 71776	TEA5581
Q401	4822 209 83631	NJM4558DD
Q501	4822 209 62557	LM7000N

CS 35 862

Q717	4822 209 83732	AN7062P
Q801	4822 209 60826	NJM7812FA
Q802	4822 209 61533	NJM7806FA

LA01	4822 157 63084	ANT coil, MW 280 µH
LA02	4822 157 52716	OSC coil, MW
LA05	4822 157 53589	Choke coil 39 mH
LA06	4822 148 81095	I.F.T. coil, AM
LN01	4822 280 70354	Relay
L201	4822 157 62408	I.F.T. coil
L202	4822 157 62409	I.F.T. coil
L701	4822 157 63085	Choke coil, speaker
L702	4822 157 63085	Choke coil, speaker

GU01	4822 111 91936	Res. network 10k x 14
GU02	4822 111 91678	Res. network 10k x 7
RA13	4822 100 11352	Potm. trimmer 22k
RE19	4822 101 30754	Potm. bass 10k (C)
RE20	4822 101 30754	Potm. treble 10k (C)
RG01	4822 100 11712	Potm. drive 100k (D) x 2
RN19	4822 116 60332	Res. met. oxide 1k 2W
RT01	4822 116 60262	Res. met, oxide 330E 2W
RT02	4822 116 60262	Res. met, oxide 330E 2W
RV31	4822 101 30753	Potm. balance 100k (W)
R206	4822 116 82951	Res. metal film 33k 1/6W
R210	4822 050 21501	Res. metal film 150E 1/4W
R211	4822 100 11471	Potm. trimmer 100k
R301	4822 100 11351	Potm. trimmer 10k
R311	4822 116 52849	Res. metal film 220E 1/4W
R314	4822 100 11373	Potm. trimmer 4.7k
R417	4822 050 21021	Res. metal film 100E 1/4W
R418	4822 050 21021	Res. metal film 100E 1/4W
R514	4822 116 52849	Res. metal film 220E 1/4W
R713	4822 050 26809	Res. metal film 68E 1/6W
R714	4822 050 26809	Res. metal film 68E 1/6W
R719	4822 100 11386	Potm. trimmer 10k
R720	4822 100 11386	Potm. trimmer 10k
R725÷R730	4822 050 26809	Res. metal film 68E 1/6W
R731	4822 116 60246	Res. safety 220E 1W
R732	4822 116 60246	Res. safety 220E 1W
R733÷R736	4822 111 91291	Res. safety 10E 1/6W
R737	4822 116 82049	Res. metal film 0.18E x 2 3W
R738	4822 116 82049	Res. metal film 0.18E x 2 3W
R739	4822 050 26809	Res. metal film 68E 1/6W
R740	4822 050 26809	Res. metal film 68E 1/6W
R743	4822 111 90726	Res. safety 10E 2W
R744	4822 111 90726	Res. safety 10E 2W
R745	4822 116 82523	Res. metal film 4.7k 1W
R803	4822 116 60331	Res. met. oxide 1k 1W
R804	4822 116 82525	Res. fuse 390E 1/2W
R807	4822 116 60306	Res. met. oxide 1E 1/2W
R810	4822 116 60306	Res. met. oxide 1E 1/2W

GU05	4822 126 11191	Cap. comp. 470 pF/100k x 4
CA01	4822 125 50384	Cap. trimmer 20 pF
CA02	4822 122 40491	Cap. ceramic 0.022 µF
CA03	4822 126 11192	Cap. ceramic 15 pF
CA04	4822 126 31205	Cap. ceramic 47 pF
CA05	4822 121 41629	Cap. foil 390 pF
CA06	4822 122 32486	Cap. ceramic 0.01 µF
CA15	4822 122 32486	Cap. ceramic 0.01 µF
CA16	4822 122 40491	Cap. ceramic 0.022 µF
CA21	4822 122 40568	Cap. ceramic 68 pF
CA22	4822 122 32486	Cap. ceramic 0.01 µF
CE07	4822 124 21898	Cap. elect. 0.47 µF 50 V
CE08	4822 124 21898	Cap. elect. 0.47 µF 50 V
CE09	4822 124 21901	Cap. elect. 47 µF 6.3 V
CE10	4822 124 21901	Cap. elect. 47 µF 6.3V
CE13	4822 124 41604	Cap. elect. 0.1 µF 50 V
CE14	4822 124 41604	Cap. elect. 0.1 µF 50 V
CE15	4822 124 21739	Cap. elect. 22 µF 16 V
CE16	4822 124 21739	Cap. elect. 22 µF 16 V
CE17	4822 124 41243	Cap. elect. 2.2 µF 50 V
CE18	4822 124 41243	Cap. elect. 2.2 µF 50 V
CE19	4822 124 21895	Cap. elect. 0.22 µF 50 V
CE20	4822 124 21895	Cap. elect. 0.22 µF 50 V
CG01	4822 122 32486	Cap. ceramic 0.01 µF
CN01	4822 124 21739	Cap. elect. 22 µF 16 V
CN03	4822 124 21901	Cap. elect. 47 µF 6.3 V
CN04	4822 124 21901	Cap. elect. 47 µF 6.3 V
CN05	4822 122 32486	Cap. ceramic 0.01 µF
CU02	4822 124 21901	Cap. elect. 47 µF 6.3 V
CU04	4822 122 40586	Cap. ceramic 0.01 µF
CU05	4822 124 23295	Cap. elect. 0.022 µF 5.5 V
CU06	4822 124 41604	Cap. elect. 0.1 µF 50 V
CV01÷CV06	4822 122 32486	Cap. ceramic 0.01 µF
CV10	4822 122 32486	Cap. ceramic 0.01 µF
CV15	4822 122 32486	Cap. ceramic 0.01 µF (/00R)
CV16	4822 122 32486	Cap. ceramic 0.01 µF (/00R)
C201	4822 122 32486	Cap. ceramic 0.01 µF
C202	4822 122 32486	Cap. ceramic 0.01 µF
C203	4822 122 40491	Cap. ceramic 0.022 µF
C204	4822 122 40491	Cap. ceramic 0.022 µF
C206	4822 122 40491	Cap. ceramic 0.022 µF
C207	4822 124 41604	Cap. elect. 0.1 µF 50 V
C210	4822 122 40568	Cap. ceramic 68 pF
C211	4822 122 40491	Cap. ceramic 0.022 µF
C303	4822 124 41604	Cap. elect. 0.1 µF 50 V
C304	4822 124 41604	Cap. elect. 0.1 µF 50 V
C307	4822 124 41604	Cap. elect. 0.1 µF 50 V
C310	4822 121 43759	Cap. mica 1000 pF
C405	4822 124 21739	Cap. elect. 22 µF 16 V
C406	4822 124 21739	Cap. elect. 22 µF 16 V
C419	4822 122 32486	Cap. ceramic 0.01 µF
C501	4822 122 31205	Cap. ceramic 47 pF
C502	4822 122 31205	Cap. ceramic 47 pF
C504	4822 122 32486	Cap. ceramic 0.01 µF
C505	4822 124 41604	Cap. elect. 0.1 µF 50 V
C507	4822 122 32486	Cap. ceramic 0.01 µF
C508	4822 122 32486	Cap. ceramic 0.01 µF
C705	4822 122 32917	Cap. ceramic 33 pF
C706	4822 122 32917	Cap. ceramic 33 pF
C711	4822 126 10797	Cap. ceramic 10 pF
C712	4822 126 10797	Cap. ceramic 10 pF
C713	4822 122 40367	Cap. ceramic 7 pF

C714	4822 122 40367	Cap. ceramic 7 pF
C717÷C720	4822 122 32895	Cap. ceramic 100 pF
C721÷C724	4822 124 21895	Cap. elect. 0.22 µF 50 V
C727	4822 124 23626	Cap. elect. 100 µF 63 V
C728	4822 124 23626	Cap. elect. 100 µF 63 V
C729	4822 122 32486	Cap. ceramic 0.01 µF
C801	4822 122 32486	Cap. ceramic 0.01 µF
C802	4822 122 32486	Cap. ceramic 0.01 µF
C810	4822 124 21901	Cap. elect. 47 µF 6.3 V
C811	4822 122 30043	Cap ceramic 0.01 µF
C812	4822 124 23346	Cap. elect. 8200 µF 56 V
C813	4822 124 23346	Cap. elect. 8200 µF 56 V
C901	4822 122 33276	Cap. ceramic 0.01 µF

SE01	4822 276 12926	Bass
ST01	4822 276 20509	Speaker
SU01÷SU06	4822 276 20508	Tact
SU08÷SU10	4822 276 20508	Tact
SU12÷SU27	4822 276 20508	Tact
S901	4822 276 12924	Power

MISCELLANEOUS

A101	4822 210 10372	FM front end (/00R)
	4822 210 10397	FM front end (/05R)
FA02	4822 242 71397	Filter, SFP450H
F201	4822 242 71135	Filter, SFE10.7MS3-A
F202	4822 242 71135	Filter, SFE10.7MS3-A
F901	4822 253 20145	Fuse, T1.25A 250 V
JJ01	4822 265 10094	Jack, 7P
JT01	4822 267 31126	Jack, headphone
JV01	4822 265 30397	Jack, 4P RCA
JV02	4822 265 30397	Jack, 4P RCA
JV03	4822 265 30457	Jack, 6P RCA
JV04	4822 266 30274	Jack, 2P RCA
JV08	4822 265 10063	Jack, 6P RCA
JW51	4822 290 60841	Terminal, speaker
JW52	4822 290 60839	Terminal, speaker
J101	4822 266 30298	Terminal, ANT
J401	4822 267 30741	Jack, 2P RCA
J501	4822 267 31034	Jack, 15P
VU01	4822 130 90857	Display FIP10BGM8
XU01	4822 242 72194	Ceramic filter 4.19 MHz
X501	4822 242 72333	Ceramic filter 7.2 MHz

CS 35 863